

1/10

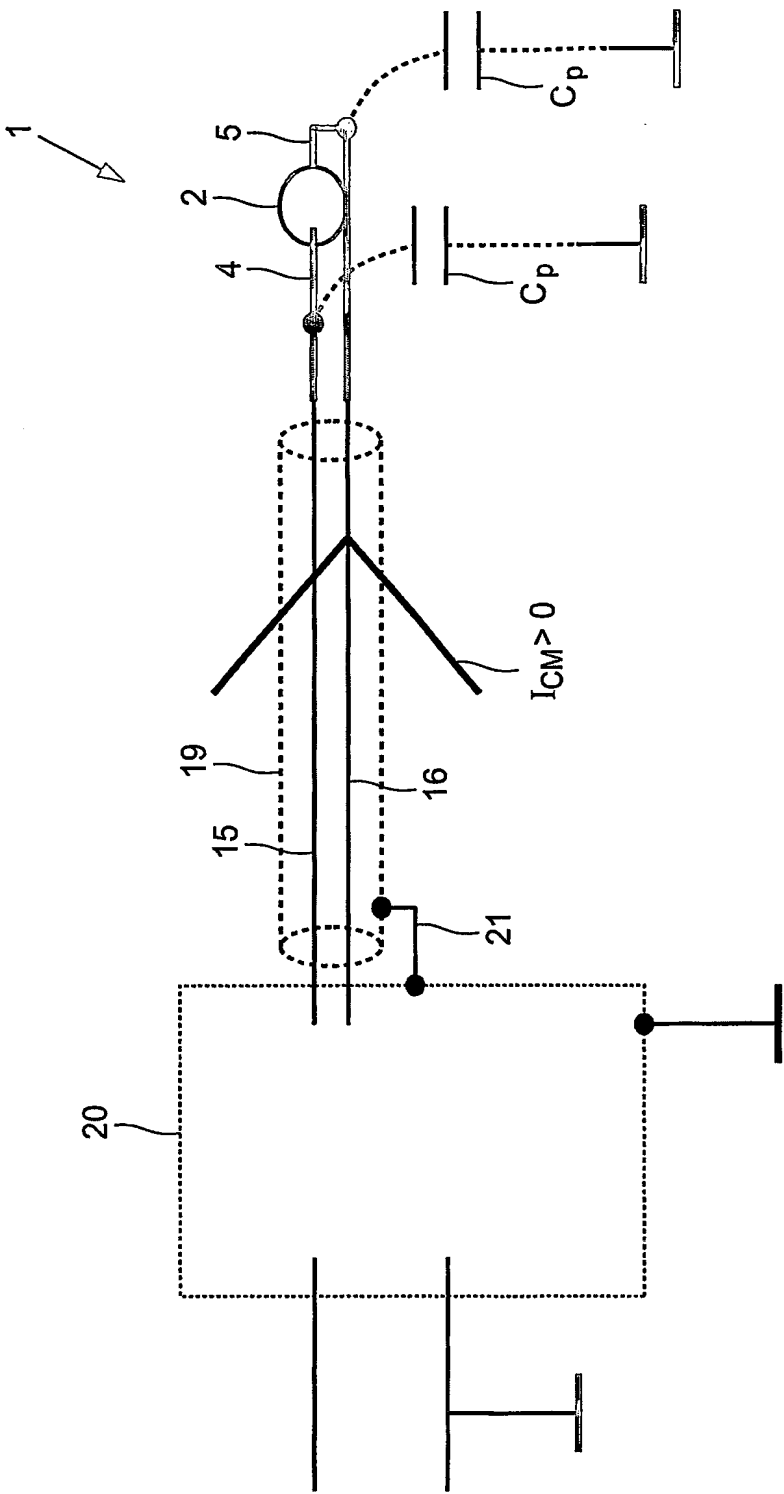
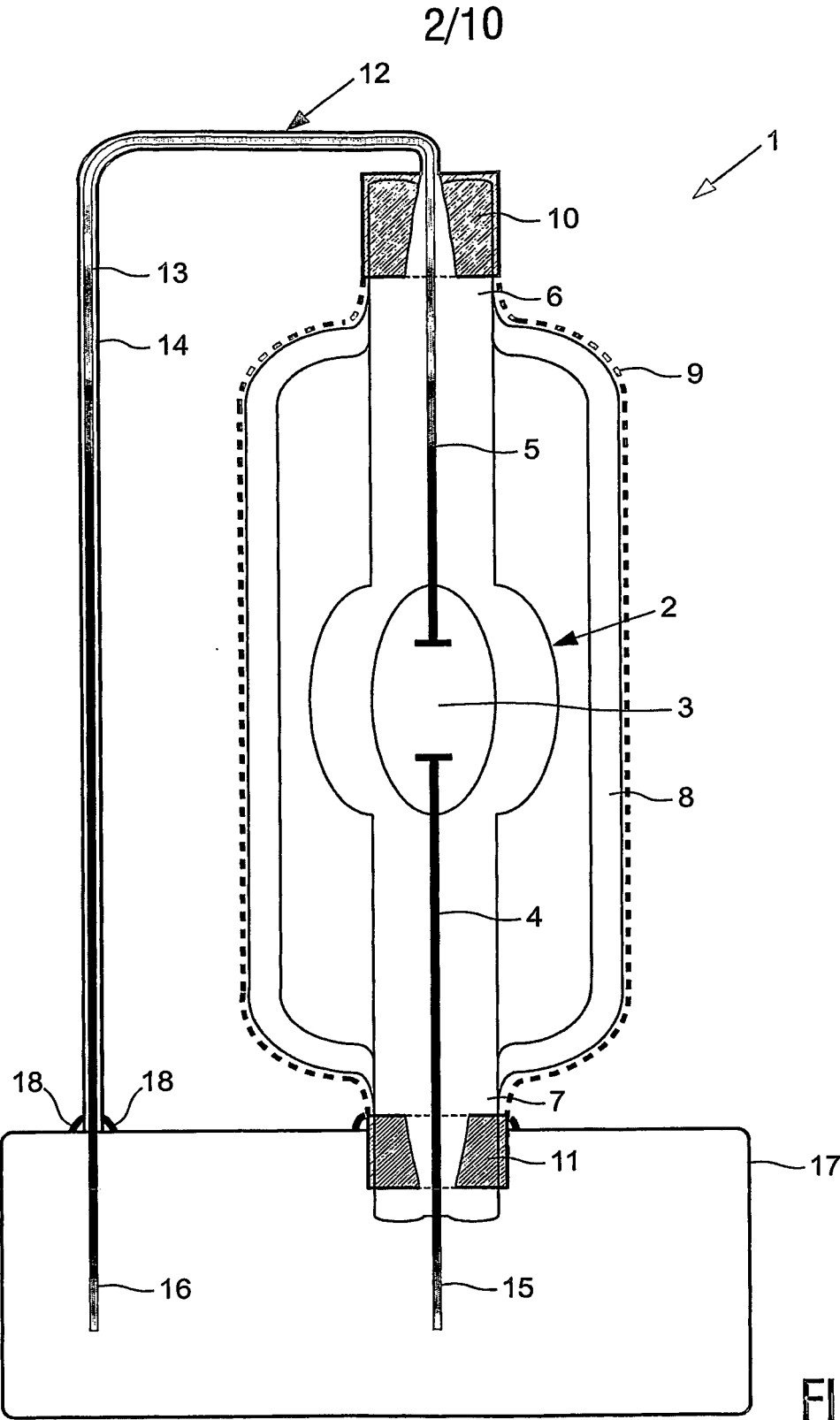


FIG.1  
Prior art



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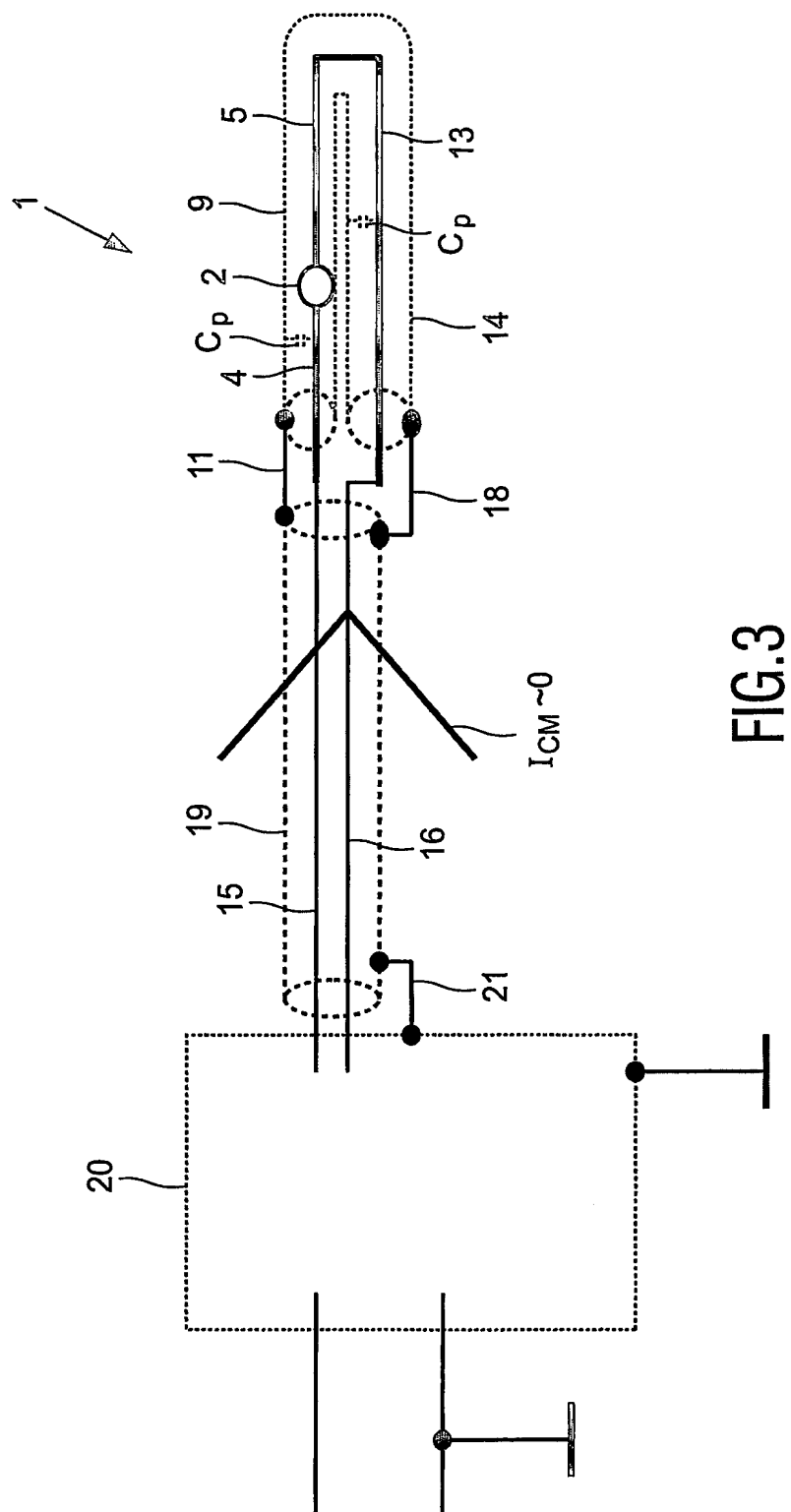


FIG.3

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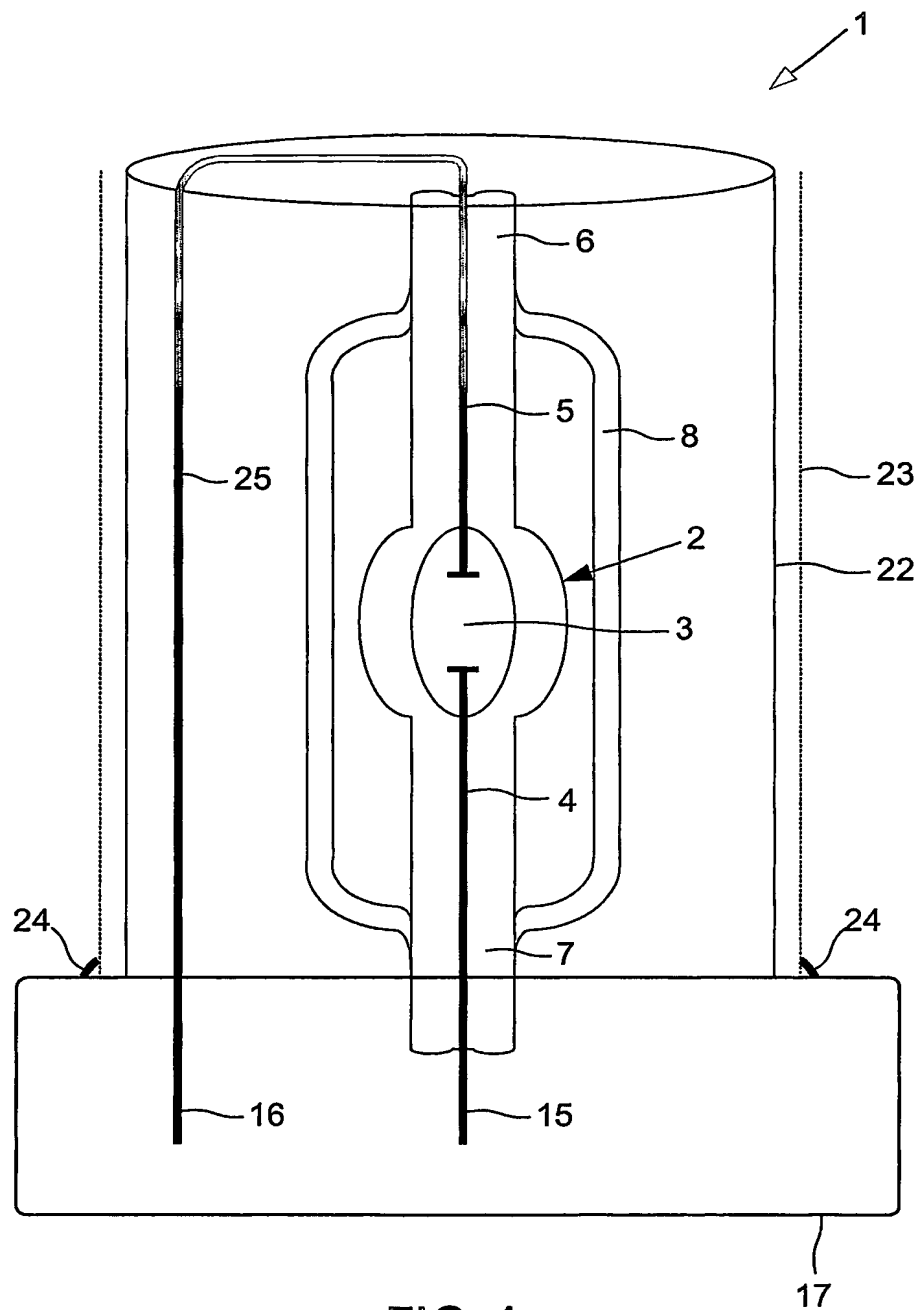


FIG. 4

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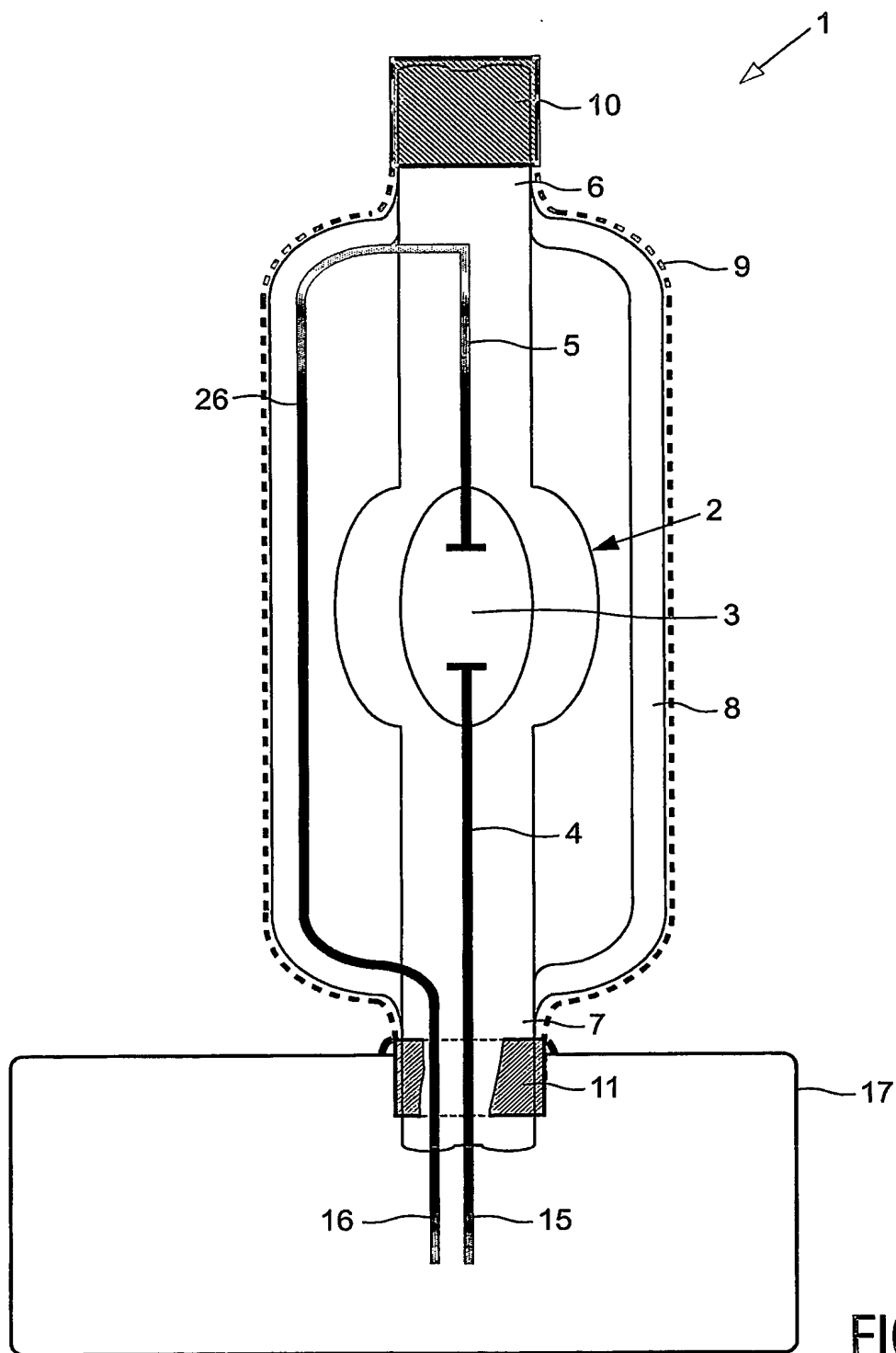


FIG. 5

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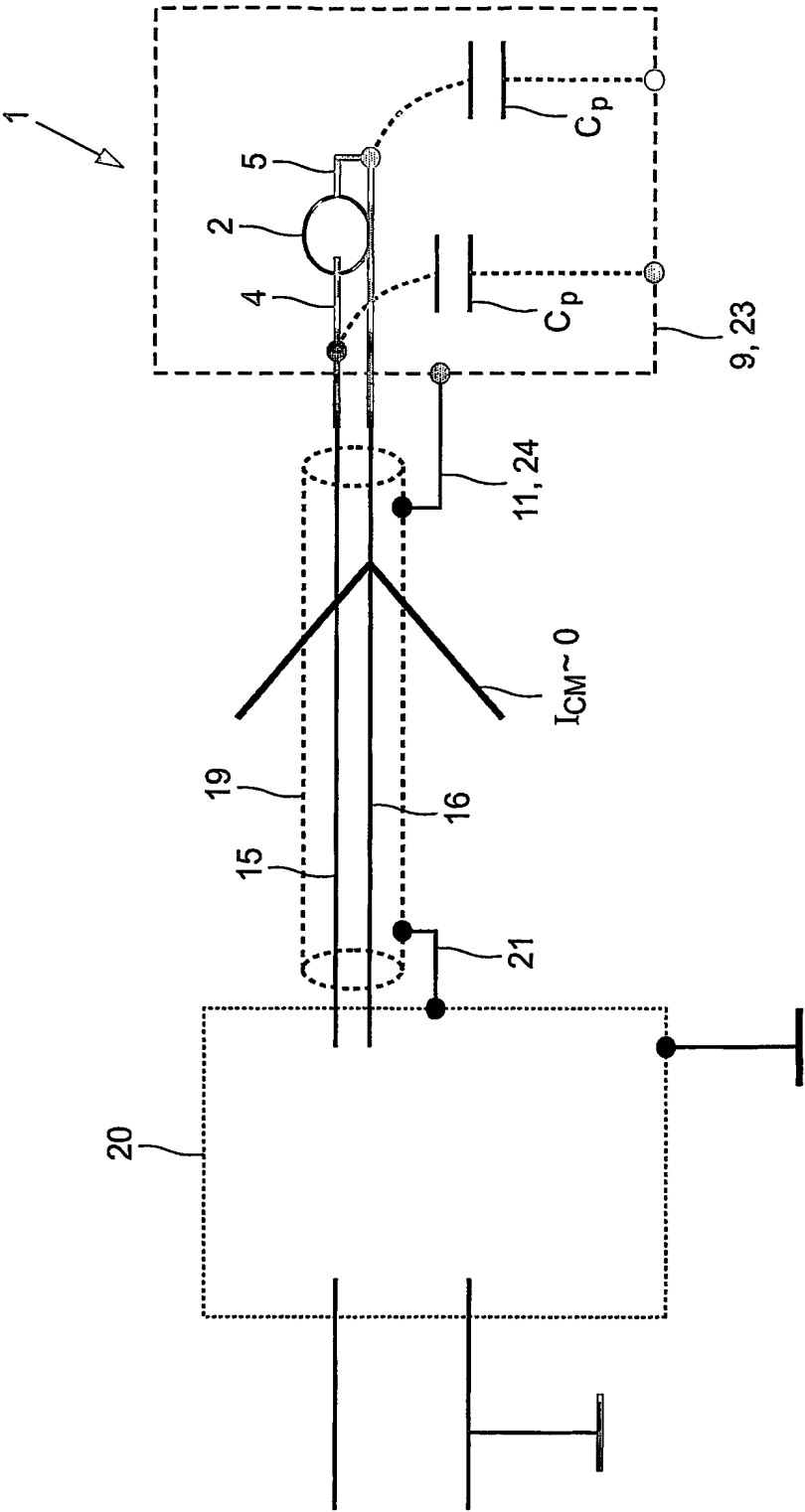


FIG.6

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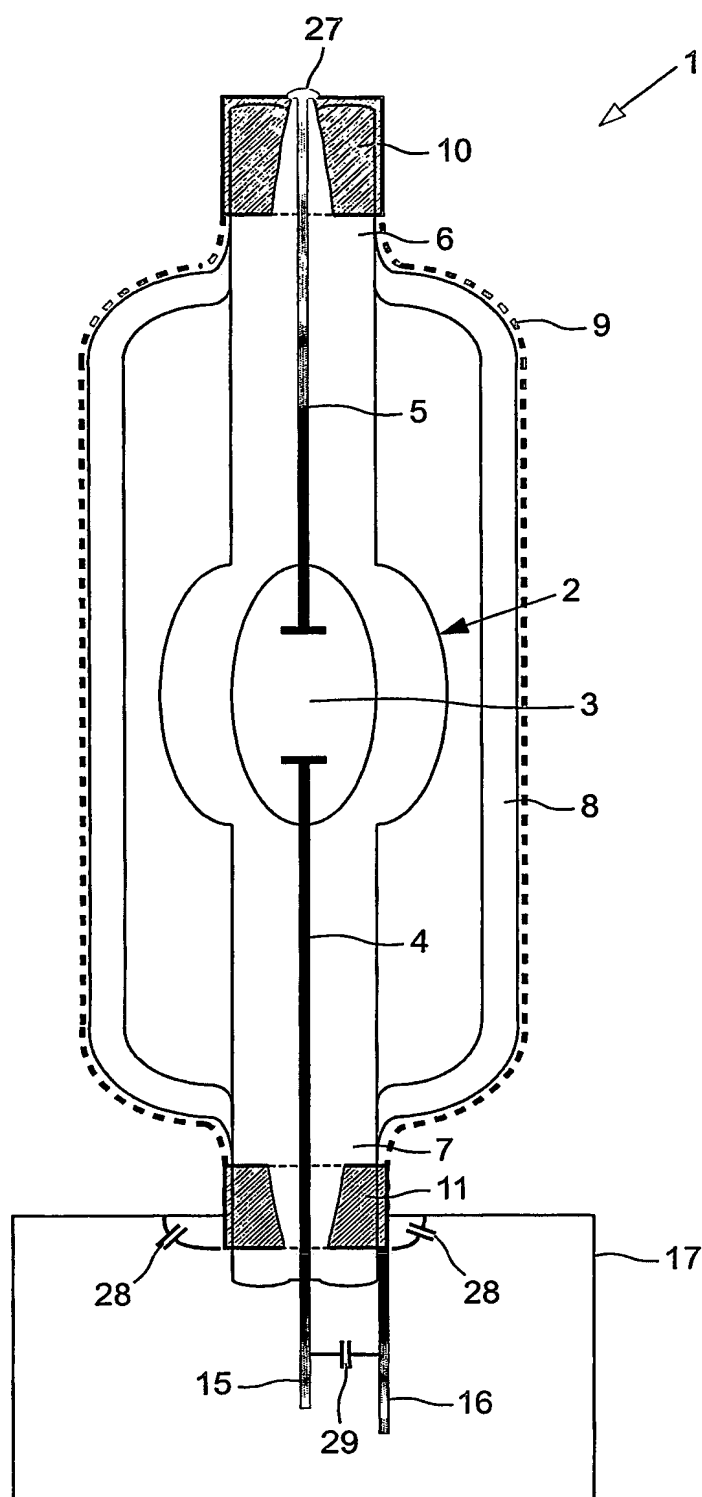


FIG. 7

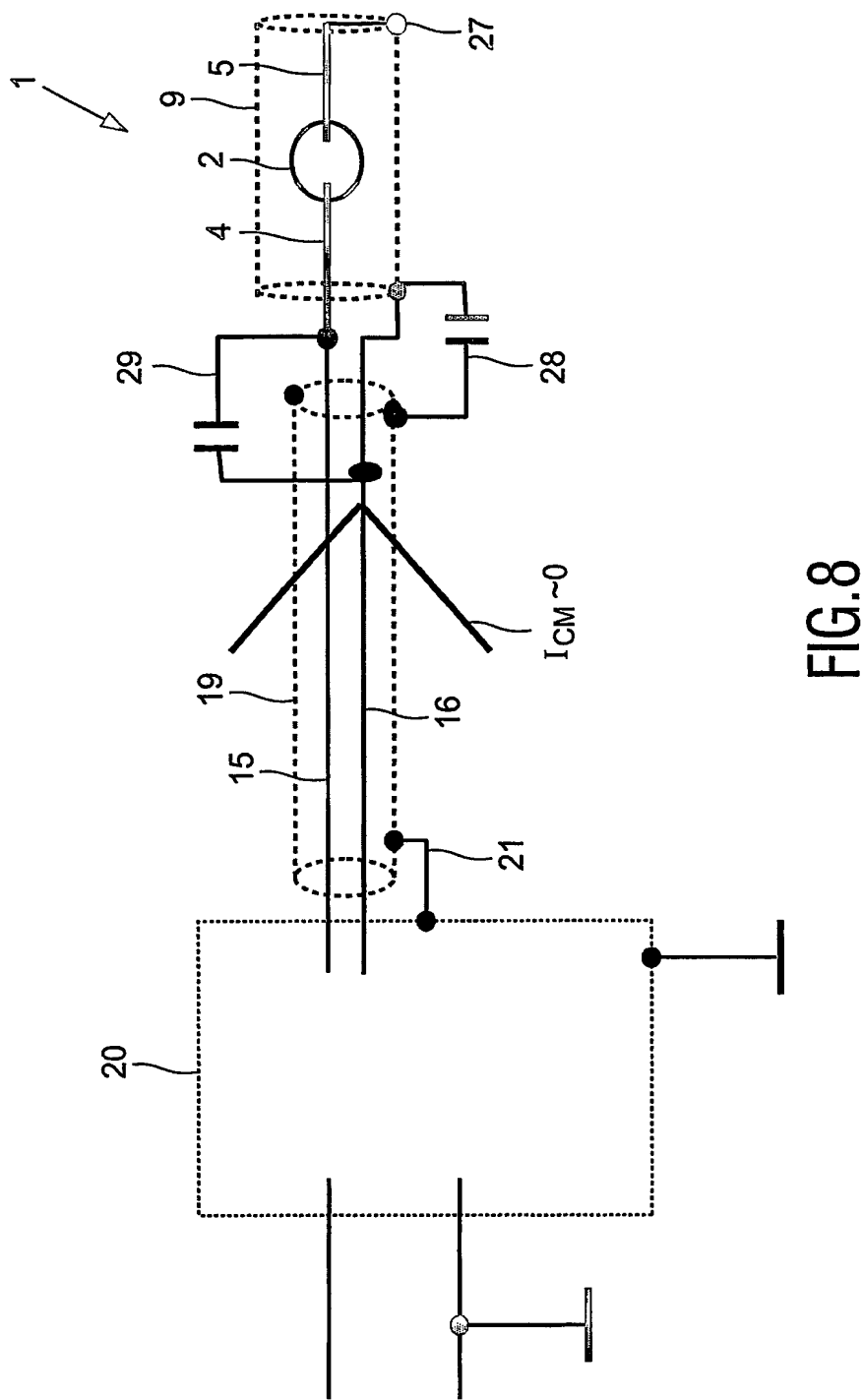
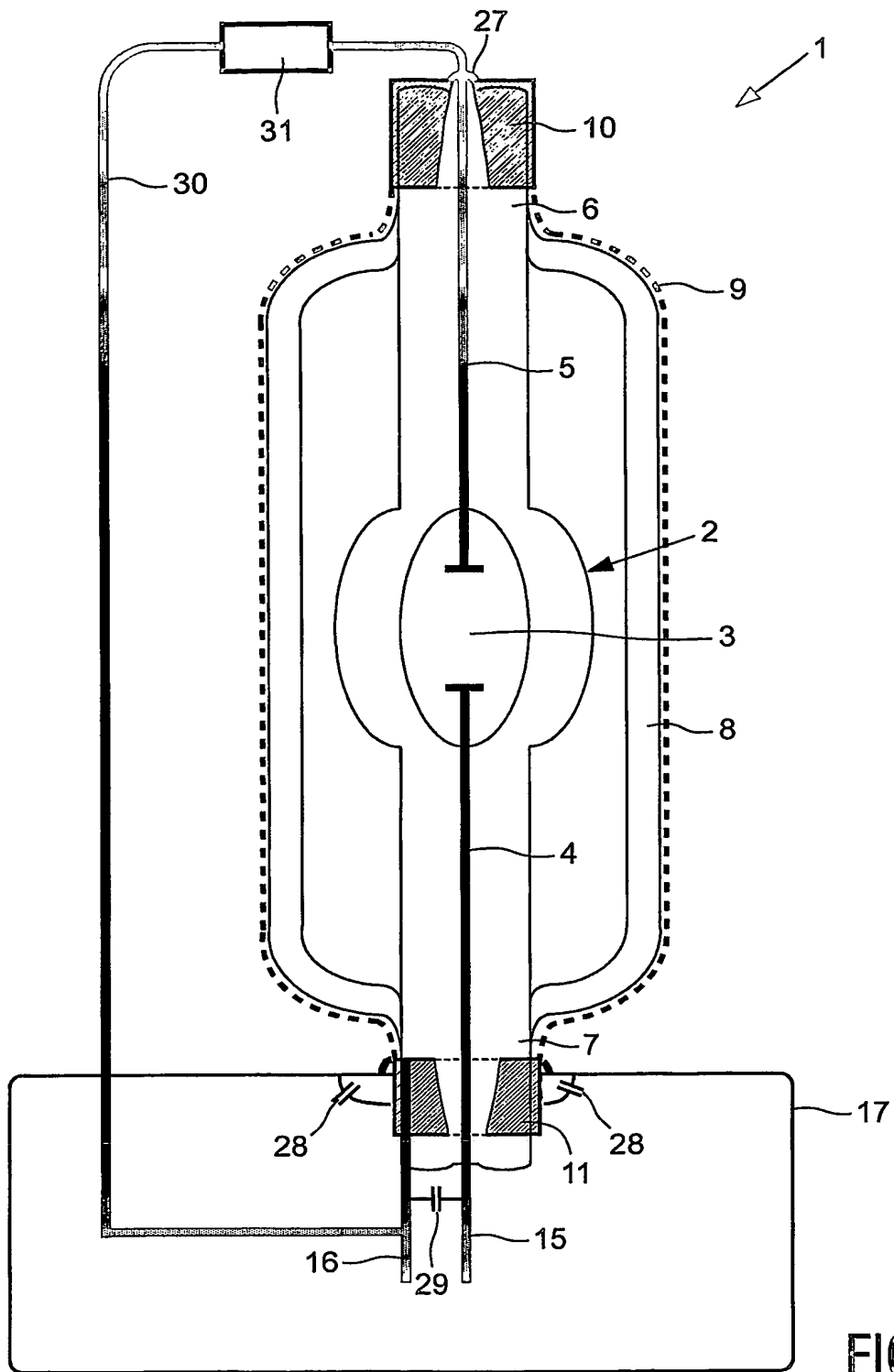


FIG.8



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The diagram shows a high-voltage electron beam source (1). It includes a cathode (2) and an anode (3) separated by a gap (4). The cathode is connected to a high-voltage supply (20) via a transformer (21). The anode is connected to ground. A series of capacitors (29, 28) and resistors (30, 31) are connected in series between the cathode and the anode. A current  $I_{CM} \sim 0$  is indicated near the cathode. The entire assembly is housed in a vacuum chamber (5) with a viewing window (9). The cathode is mounted on a support (27) and is surrounded by a cooling system (30, 31).

FIG. 10

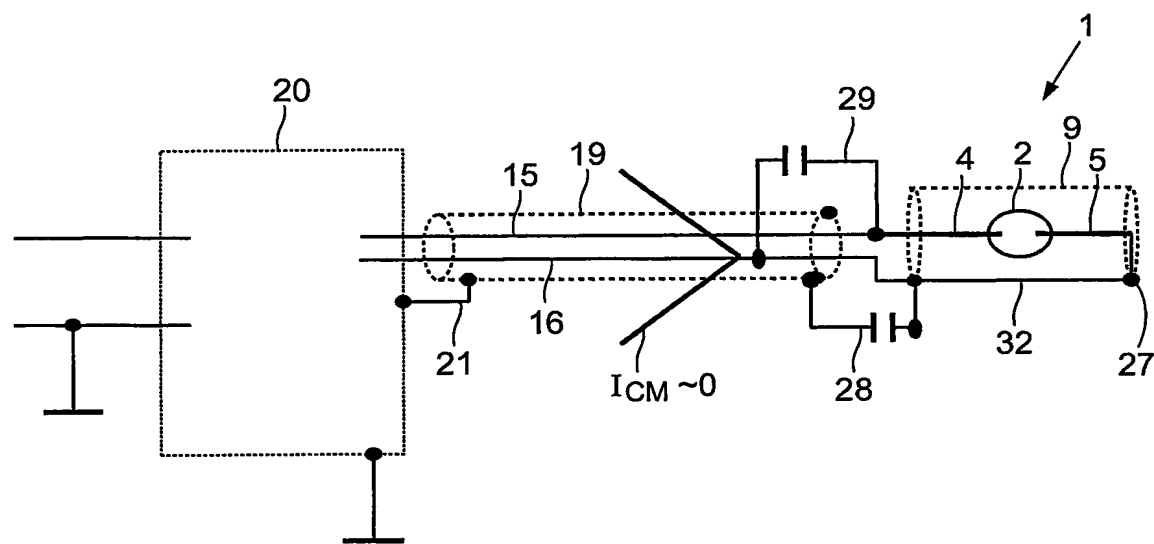


FIG. 11